



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,254	01/21/2004	Kia Silverbrook	RRA01US	1568
24011	7590	12/01/2005	EXAMINER	
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, NSW 2041 AUSTRALIA			MARTIN, LAURA E	
			ART UNIT	PAPER NUMBER
			2853	

DATE MAILED: 12/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/760,254	Applicant(s) SILVERBROOK, KIA	
	Examiner Laura E. Martin	Art Unit 2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 January 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>11/8/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 17c; 500. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Silverbrook et al. (US 6439908).

Silverbrook et al. teaches a printer cartridge (12) for an inkjet printer including: a printing fluid storage (16) house within a body that includes an arrangement for replenishing of printing fluid from an external source (C7, L5-7) and a pagewidth printhead (10) arranged to generate a print of at least 8 inches in width (C2, L27) in communication with said printing fluid storage. Silverbrook et al. also teaches a pagewidth printhead including at least 20,000 and at least 30,000 printing fluid delivery nozzles in fluid communication with the printing fluid storage (C3, L4-50; figure 4 shows 10 chips, which allows for 52,000 nozzles). Silverbrook et al. also teaches one or more storage reservoirs for storing ink for printing (16) separately storing a set of colored ink sufficient for color printing (C3, L44-50).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US 6439908) in view of Silverbrook (US 6281912).

In claims 8 and 9, Silverbrook et al. ('908) teaches the printer cartridge of claim 7; however, it does not disclose storage reservoirs containing an ink fixative or infra-red ink.

Silverbrook ('912) teaches reservoirs separately storing ink fixative and an infra-red ink for printing (C2, L48-50).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Silverbrook et al. ('908) with that of Silverbrook ('912) in order to improve image quality.

In claims 10-12, Silverbrook et al. ('908) teaches a first electrical connector (58) provided in electrical communication with the pagewidth printhead and disposed adjacent a first end of the pagewidth printhead for mating with a first corresponding connector of the inkjet printhead (C3, L57-65); a second electrical connector (60) provided in electrical communication with the pagewidth printhead and disposed adjacent a second end of the pagewidth printhead for mating with a second corresponding connector of the inkjet printer (C3, L57-65); wherein the cartridge is received in the inkjet printer power and data is transmitted to the pagewidth printhead from the inkjet printer by said mating relationship between the first and second electrical connectors and the corresponding connectors of the inkjet printer (C3, L57-65).

Silverbrook et al. ('908) does not teach the apparatus of claim 9.

Silverbrook ('912) teaches the apparatus of claim 9.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Silverbrook et al. ('908) with that of Silverbrook ('912) in order to create a more durable printhead.

In claims 13-16, Silverbrook et al. ('908) teaches the electrical connectors of claims 10-12; however, it does not disclose the assembly arranged to direct air over the printhead including a filter and an inlet.

Silverbrook ('912) teaches an assembly arranged to direct air over said pagewidth printhead (68 air passage), wherein the assembly includes a filter for filtering the air prior to said air being directed over said pagewidth printhead (C8, L60-63), an inlet for receiving air from an external source (61) wherein the external source is located in the inkjet printer (figures 4 and 5).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the Silverbrook ('912) invention with that of Silverbrook et al. ('908) to allow for a more durable printhead.

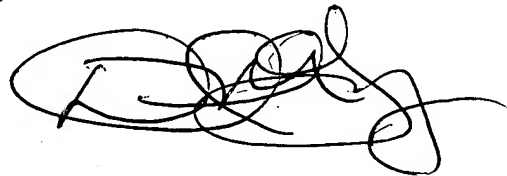
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura E. Martin whose telephone number is (571) 272-2160. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David M. Gray can be reached on (571) 272-2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2853

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura E. Martin

A handwritten signature in black ink, appearing to read 'David Gray', with a large, stylized flourish extending from the end.

David Gray
Primary Examiner